

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 3 AND S. WAUGH CHAPEL RD. IN ANNE ARUNDEL COUNTY. MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE LEFT TURN PHASE FOR NORTHBOUND MD 3. VIDEO DETECTION WILL BE USED.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE AND ONE (1), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A NEMA "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. JOHN MAYES
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

MR. MIKE HUBER
UTILITY ENGINEER
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 & 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	G	G
1 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	Y	Y
PHASE 2 & 6	R	R	R	G	G	G	G	G	R	R	R	R	R	R	R	R
2 & 6 CHANGE	R	R	R	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FLR	FLR	FLR	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	FLR

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
9 CY	TEST PIT EXCAVATION
120 LF	24 IN. WHITE HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
1 EA	CONTROLLER AND CABINET - BASE MOUNT
1 EA	VIDEO INTERFACE EQUIPMENT
1 EA	FOUR-CHANNEL, TIME- DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
33 EA	12 INCH LED SIGNAL HEAD SECTION
15 EA	12 INCH OPTICALLY PROGRAMMED SIGNAL HEAD SECTION
30 CY	CONCRETE FOUNDATION FOR SIGNAL
3 EA	BREAKAWAY PEDESTAL POLE
4 EA	27 FT. MAST ARM POLE & 60 FT. MAST ARM
1 EA	27 FT. MAST ARM POLE & 70 FT. MAST ARM
2 EA	15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE
12 EA	ELECTRICAL HANDHOLE
55 LF	2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
170 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
70 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED
745 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
410 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
3 EA	VIDEO DETECTION CAMERA AND CABLE
1 EA	METERED SERVICE PEDESTAL EMBEDDED
535 LF	12-PAIR COMMUNICATION CABLE
50 LF	ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 A.W.G.) - THHN /THWN
175 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
3210 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
560 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.)
900 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
100 LF	DISCONNECT, PULL BACK AND REROUTE CABLE
11 EA	34 IN. X 10 FT. GROUND ROD
3 EA	NON-INVASIVE MICRO-LOOP PROBE
* 1 EA	D3-(2) (VAR X 16") DUAL FACE SIGN - MAST ARM MOUNT
3 EA	SHIELD ASSEMBLY (48" X 75") - POLE MOUNT
3 EA	R3-SL (30" X 36") SIGN - MAST ARM MOUNT
2 EA	R3-1 (30" X 30") SIGN - MAST ARM MOUNT
2 EA	R3-SR (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-2 (30" X 30") SIGN - MAST ARM MOUNT
1 EA	M85-1 (MOD) 48" X 24" SIGN - MAST ARM MOUNT
1 EA	R3-4 (30" X 30") SIGN - MAST ARM MOUNT
1 EA	R10-11B (30" X 30") SIGN - MAST ARM MOUNT

* - THE CONTRACTOR SHALL CONFIRM STREET NAME PRIOR TO FABRICATION

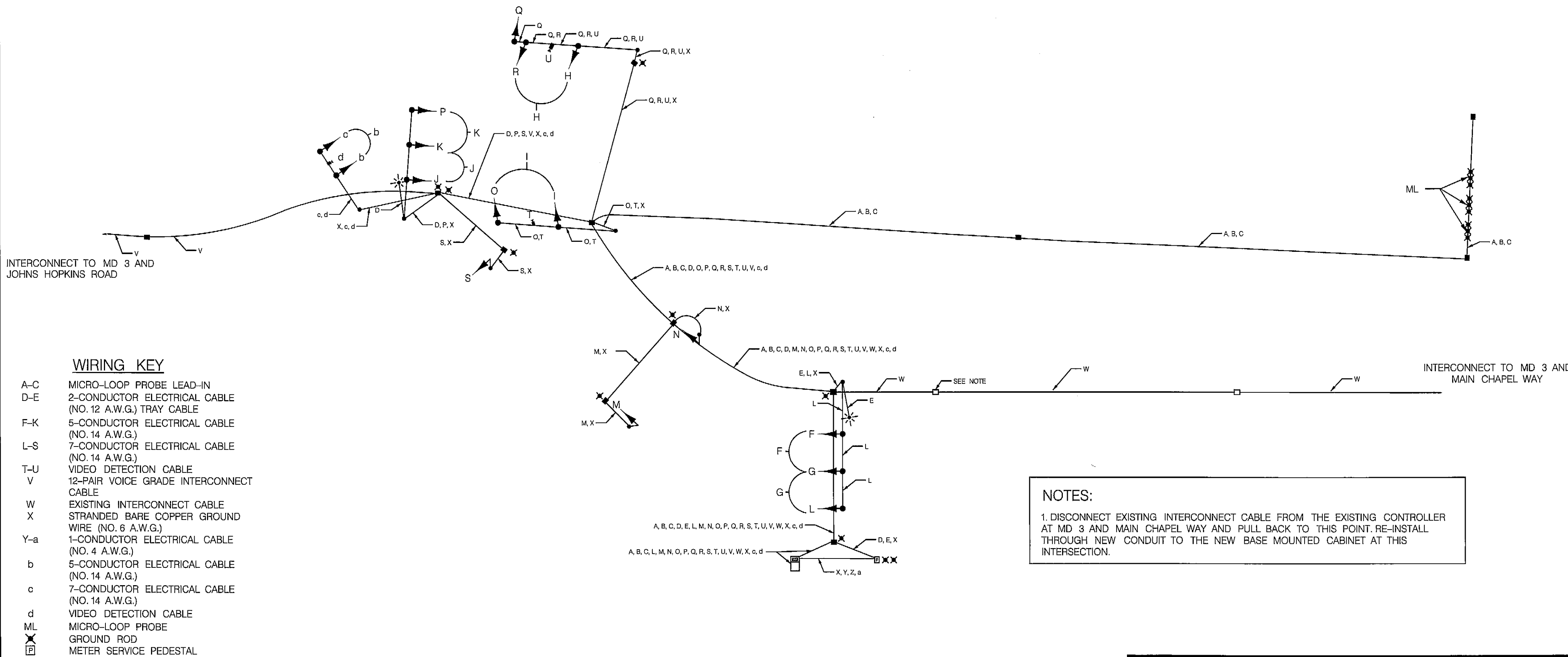
EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

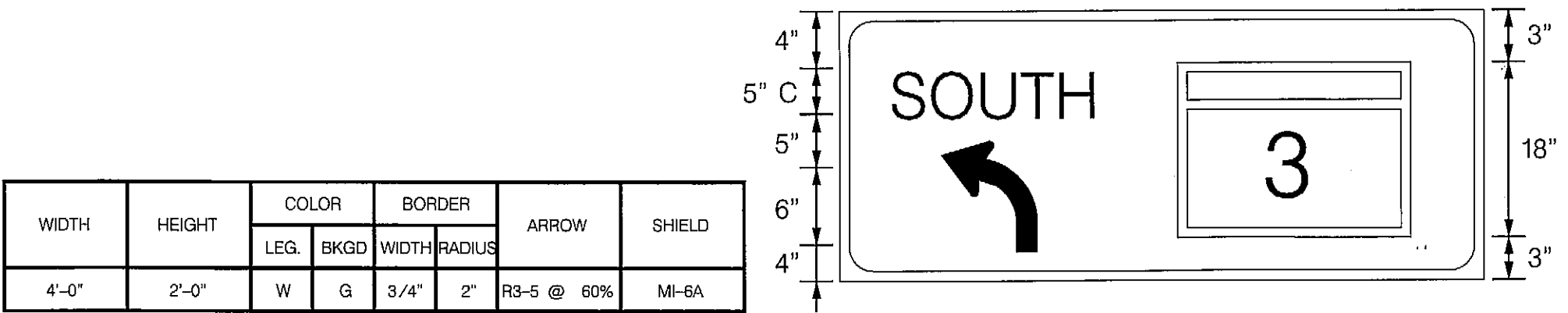
ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



SIGN LAYOUT



TRAFFIC CONCEPTS, INC.

325 Gambrills Road
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Gambrills, MD 21054
(410) 923-7101
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EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

FILE PATH: M:\1700\1774\Signals\7-17-09 Final Plans\dgn\Waugh Chapel South\signal.dgn
DATE: Monday, August 24, 2009 AT 12:24 PM



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 3 AND S. WAUGH CHAPEL ROAD

GENERAL INFORMATION PLAN

SCALE	NONE	DATE	8-1-09	CONTRACT NO.	BW996M82
DESIGNED BY	T. ZAYDEL	COUNTY	ANNE ARUNDEL		
DRAWN BY	T. ZAYDEL	LOGMILE	02000303.28		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	J - 663		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS- 4724GI	SHEET NO.	2	OF	2